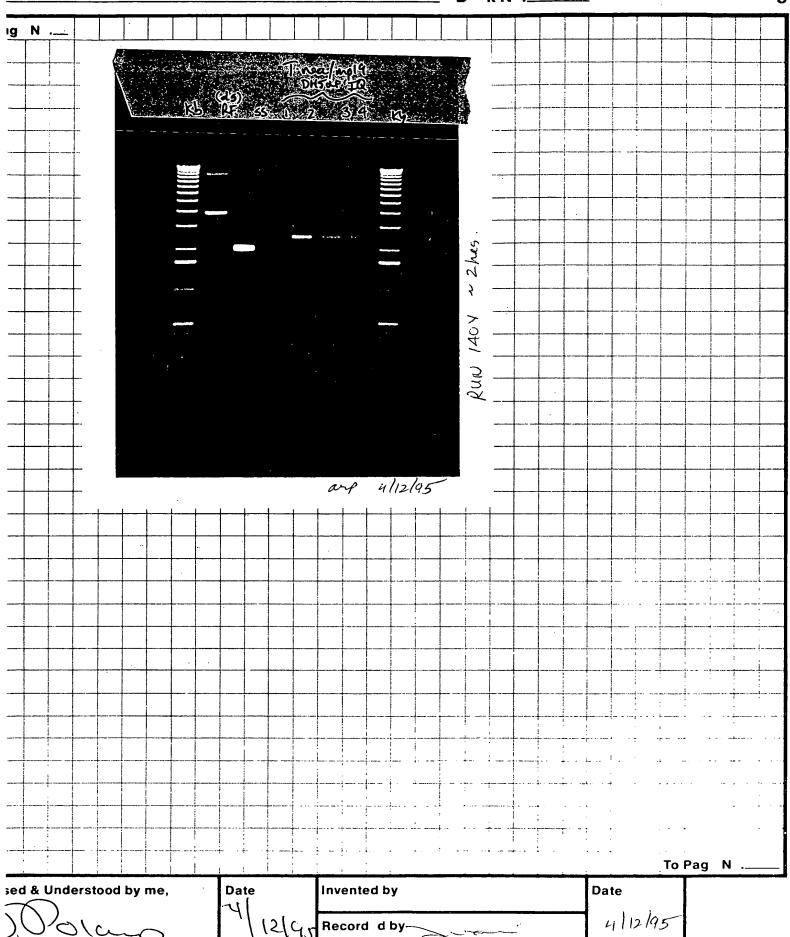
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	Durificat	971 M 2012	-+
	I wy nacy	on of m13 SSDNA	·
1. Cfq 1.0	ml of infecter	Lall culture for	2 min (1 to 5 mi
- 2. Transfer	red 800.0 yl	d Cell culture for to the new tub	ou
(00//04	was saved	for isolation of R	FONA
		 	
3. (fg sup	ernatant agai	n to remove any 20% PEGT + 1-5 M	residual cells
- A added	200.0 41 0	2010 PEG + 1.5 M	Nacl Vortexed
5. Incubate	ed tubes at	room temperature	for 51 hair
6 (fg tub	es for 5 min	room temperature. E of discarded Si E of Vortexed rea (to remove any residue the new tubes. (RNas Phenol / Chloroform/ well.	uper natant (sup)
7 added 2	200 ye of *T	E & vortexed rea	lly good
B. (fg for	$\sim 1-2 \text{ mm}$.	(to remove any residue	il cell debris
9 transfer	red sup to	the new tubes. (RNas	A can be added here)
10. added	equal vol. of	Phenol (Chlorofoim)	150 amyl alcohol
11 (60 5)	in waxed i	vec	
12. removed	the ag (you	en layer to a new 3M Na Ac. + 2 /2	tube (he year contiles
13. added	1/10 VOL	3M Na Ac + 2/2	-3 VOL M 95%
14-Incubat	ted @ -70°C	till 2/14/95.	
		2(14)43.	\$ 20-041 Nab
			60004l Et
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1 2 10 6 1	= 10 mm Tris-HU	PHS.0 + 1 mM EDTA PH	8.0
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·meda an m	une = yrew an	e.coli F'strain to an	ON OF 0.4 IN 2XYT
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2/98/95. contid Dinoculated 1.0 mi of the cells sot with the phage Incubated the Phage injected cells at 37°C for 5 hours. Now supernatant can be processed for isolation of SSNA & Cells (pellet) ready for isolation of RF (Replicating Form) dSDNA. 2 14/95 TUCS. Powed 0.8% Aganose gel (250 m) Volumes) in 1x TAE Buffer Agarose 250.0 ml 1 X TAE Buffer the flask boiled for 420 min. Conought up the weight the flask & adjusted, volume to before boiling with . distilled water · poured it on the plate YT 2 brought total Volume (TV) 19.39 Tayptone yeast Extract (to 1200 m1 with water Nacl alignotes (1) 500.0 ml (2) 250 ml (3) 100.0 ml (4) 100.0 ml 100.0 ml low pressure for 20 min. autoclared at 2x yt top (soft) Agar added: 0.35 9 Agar } made 3 different
50.00 ml 2x yT S aliquots. · auto claved at low pressure for 20 min. (same as 2X YT) To Page No. Invented by Date sed & Understood by me, 4/12/95 R corded by)/2(aux 4/12/95

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ag N			2/22/95
1. grow alls overi	ght (0/W) 10.	o mi	
= 9.0 mL (1.0 mL is	n ea nine tub	es). Each tubes labelle	d AH10B
	1 1 1 1 1	bes in a powdered	Ptzc 17. nea 2122195 BJS
tory ice			L8 +AP100
GENE CLEAN			
	1 1 1 1 1 1 1	day's BNA (2/2/195)	
M13 mp 18 and		d PSPORT	
b) took the picture	1 1 1 1		
2 cut of mp 18 trac	ment, mp 19	fragment & pspo	RT fragment from
the gel & trans	formed the	gel volation NA into	the separate
eppendorf tubes.		2	
1) added 700.0-11	Va I to each	Lubes. Vortexed mp	18 El mp19 tubes
3 Incubated both 1	ubes @ 55°C	to mett againse.	mixed offer often inculation
) added 5.0 4l g	loss milk to	o both tubes	
3) Incubated both			
D cfg. both tubes			
i) discarded super			
j) added 500.04.		buffer	
K) discarded superno	te a gagin	added 500,041 No	w Wash buffer.
washed both	tubes 3 tim	res.	00
1) added 10.0 yl d	H20 to the	tubes mixed well	by Voitering, 55°C for
m) set up Ligation	n		2-5 mm
igation			
H20 = 12.04		420 = 12,04l	
igase) 5 xBuffer = 4.0 4		x buffer = 4.046	
mp 18 DNA 2 2 0 4/2	A '	19 DNA = 2-0 4l	
(1 u/4l) Ligase = 2.0 M.		Ligase = 2-0 4l	
n) Incubated both	tubes over	night @ room tem	perature (con'd)
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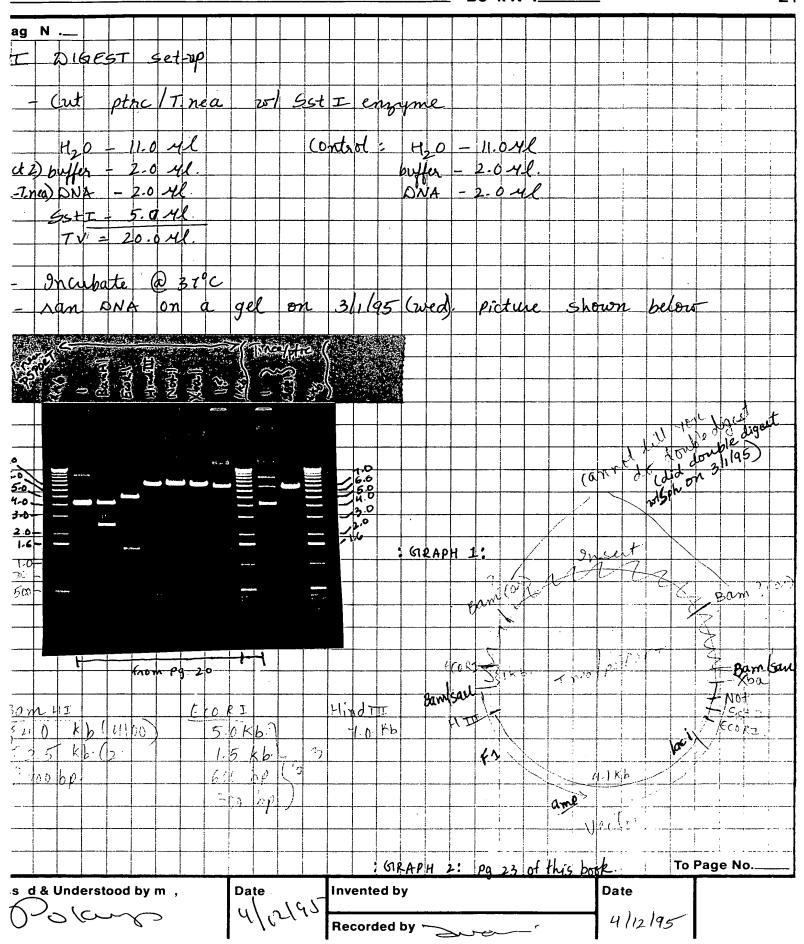
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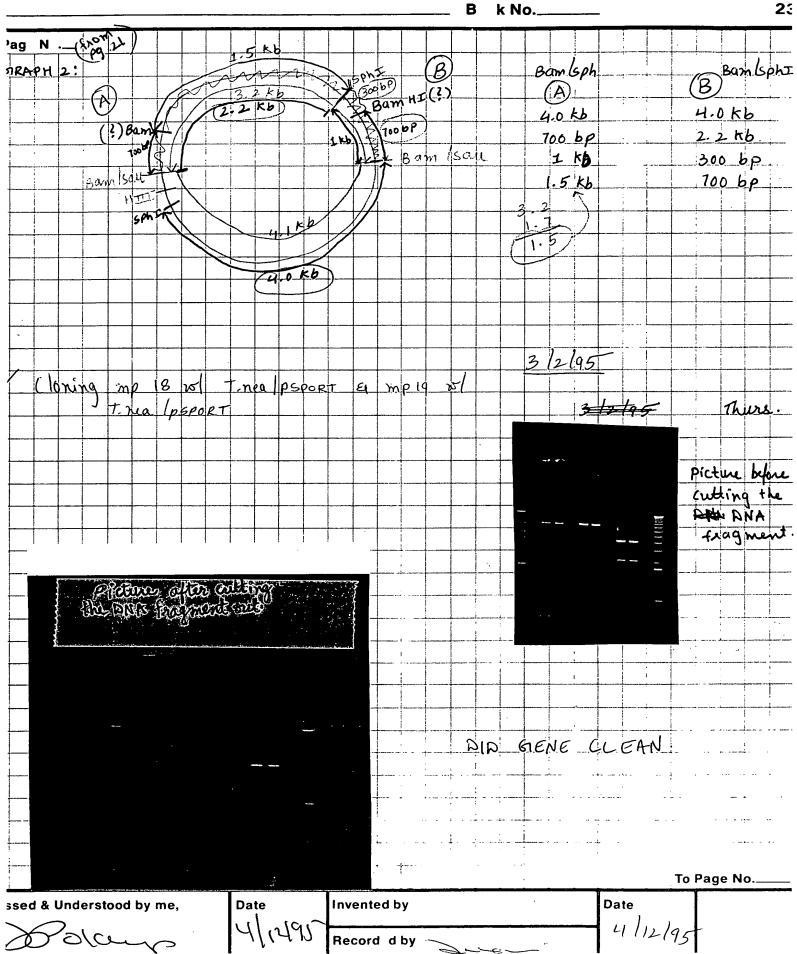
Book No._____ TITLE _

From Page N . 2/28/95 TUE I set up digest DNA ppt. MI3MP 18, mp 19 and T. nea / PSPORT 1. - 10 ca 3 added 100.0 yl TE 10.00 yr 18 (to ppt 300.00 AL ETOH 2. Incubated on dry ice for~5 min. 3. Cfg. for 10 min 6 room temp (noppl) & no ppt., added 2.0 yl yeast / tRNA. Vortexed incubated on dry ice for ~ 5 min. room temp (pellet was seen on mp 18 & cfg for 10 min. added 200.0 yel 70% EtOH to the pellet discarded supernate dis dried the heat black. DIGIEST Set-up (to map Bam ut site TCut Tinea / PSPORT with Hind III, Bam HI, Xba, NOT I, Set, Ecox Separate engymes - Hind III, Xba, Sst had REact 21 H20 - 13.0 4C Thealphort DNA - 3.0 yl - Bam HI , NOT & ECORI had REact = > buffer enzyme-2-0 yl TV = 20,0 41 Control: 4,0 - 13.0 yl for separate (REact 2) buffer - 2-0 4l DNA - 3.0 4l Incubated @ 31°C on 3/1/95 (wed) Picture Shown pg 21 - T Pag N ran on the get Witnessed & Understood by me, Invent d by Date 4/12/95 4/12/95

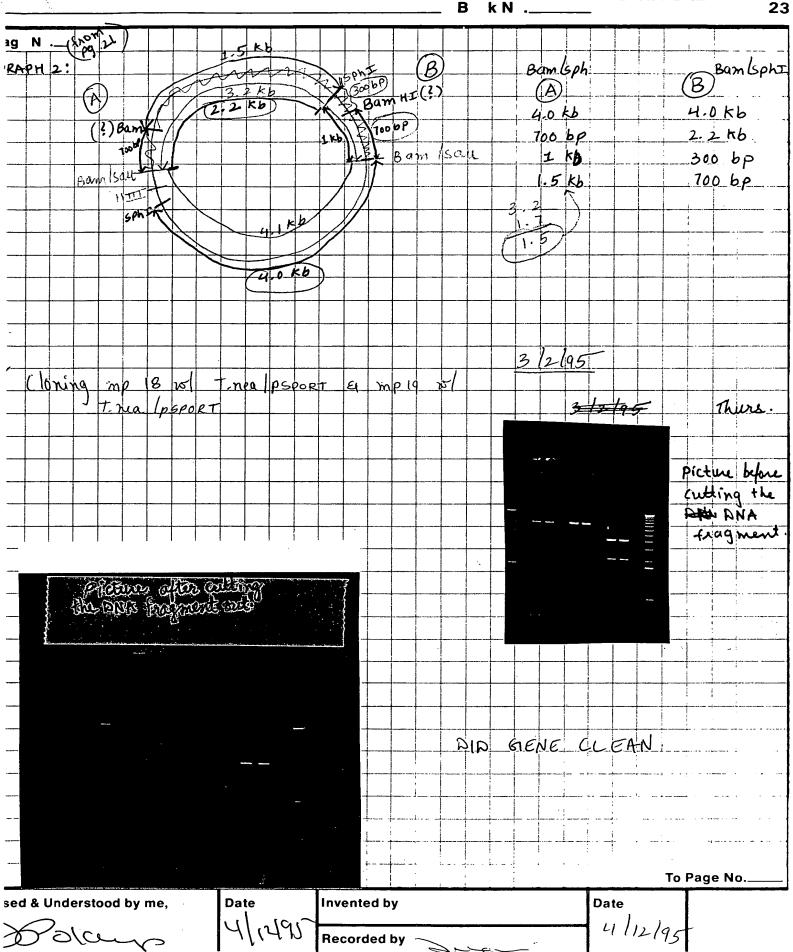


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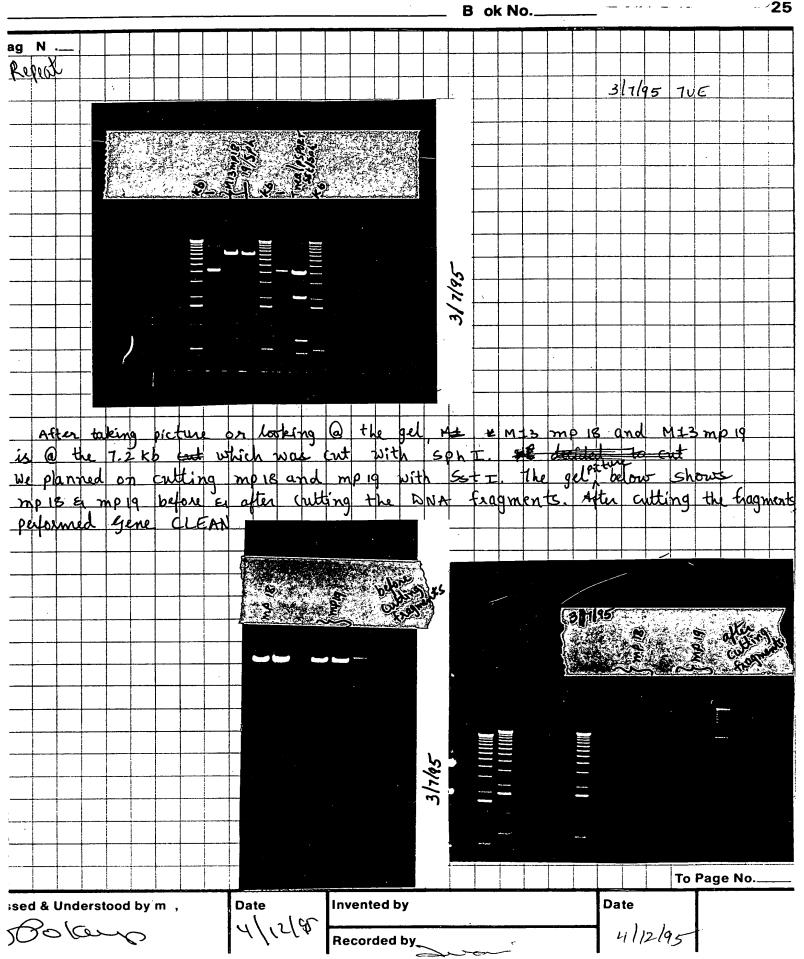
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ag N... all growth & Infection grew an E coli F' strain to an OD of 0.2-0.4 in 2x YT - Inoculated 1-2 ml of the cells not the phage Cadaled 10:0 ml from a liquid phage stock & added to cells) Droubated the phage infected celle @ 37°C for 5-7 hours. The supernate can now be processed for resolution of SSANA be processed for the isolation of Replication Form (RF) ds DNA Purification of m13 SSBNA transferred to my culture of infected all to 4 different eppendary tubes ofg it tubes for 2 min. transferred supernate to the new tubes & saved pellet from 1 tube (out of 4 tubes) for (solation of RFDNA Eupernate again & transferred the supernate to tubes done to remove any residual cells remarried behind passed the supernate through a 0.45 y filter as to remaining cells (done when performing site-directed mutagenesis) added 200.0 sel of 20% PEG + 1.5 M Nach Vortexed tubes for 15 min @ room temperature (or over night@ 4°C) for 10 min in a yefg. @ soom temp. the residual soln from the side of the tube (removed as much as possible) added 200.0 Ml TE vortexed cfg for 2 min. to remove any residual all debris Transferred supernate to the new tube. Codded 5-our RNase I to remove residual nuclei acid from the pup Benzonase will remove both ent ex DNA very efficiently.

- added equal volume of phenol (chloroform/iso annyl alcohol mixed well - cfg for 5.0 min. - transferred the upper layer to a new tube (BE CAREFUL NOT TO DISTURB WHITE INTERFACE OR REMOVE ANY PHENOL) -added 20042 NaAC & 600.0 48 EtOH + Inculated @ -70°C for 5-15 min. (we left @ -70°C Overnight) To Page No. Invent d by ssed & Und rst od by me, Date 4/12/95 4/(2/91 Recorded by Jobstan

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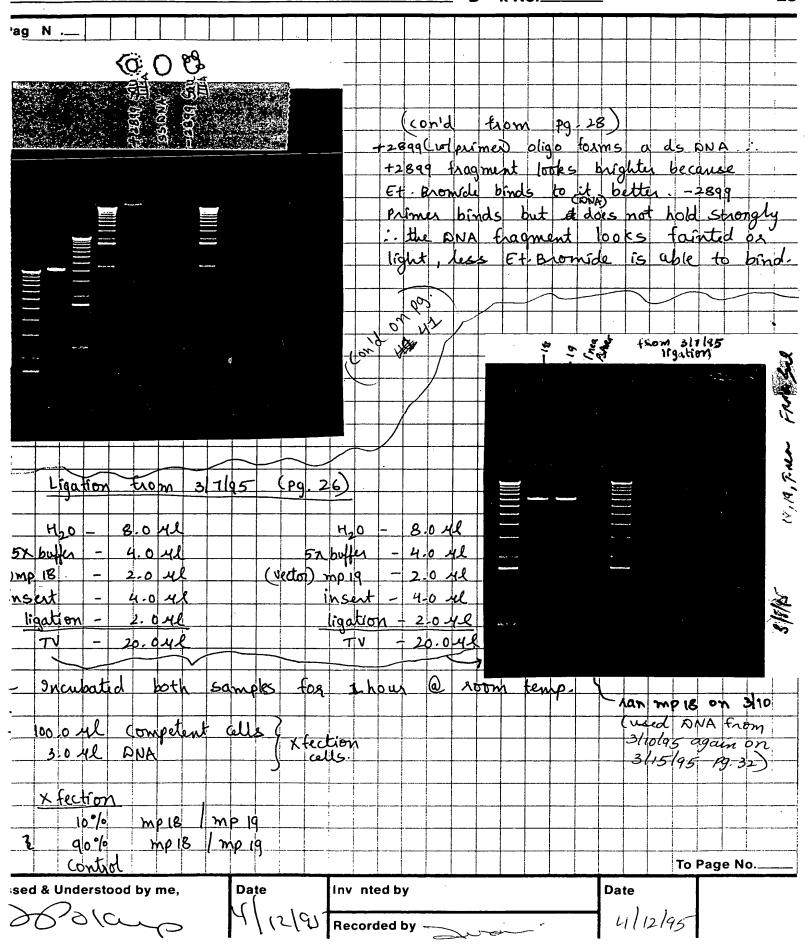
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From Page No.__ 3/8/95 wed - cfg the samples for 10-15 min. - discarded the supernate & rinsed the pellet rol 70% Etay - soiled the pellet @ 55°C heat block or @ room temperature - dissolved the DNA in 50.0 yl TE. SAM RXN 318/95 wed Annealing Rxn - Primer (-2899) + Primer (2899) 4.0 48 3.048 H20 -5x Buffer 2.0 Ml 2.0 48 4-0 48 4-0 4l 200 mg/41 Oligio 1-046 10:041 10.041 @ 70°C - 75°C Incubated. Ctoeliminate non-spr for 2 min. 37°C-40°C for min Synthesis Rxn Annualing Rxn 10.048 10 x buffer TULTY DNA DOLY Ty DNA ligation 20-0-48. Incubated 370 (a) for 10 min 2,5 41 synthesis AXN -8.048 loading dye - 1-0 42 the sample on the gel picture on the neat T Pag No Witnessed & Underst d by m, Date Invent d by Dat 4/1495 4/12/95

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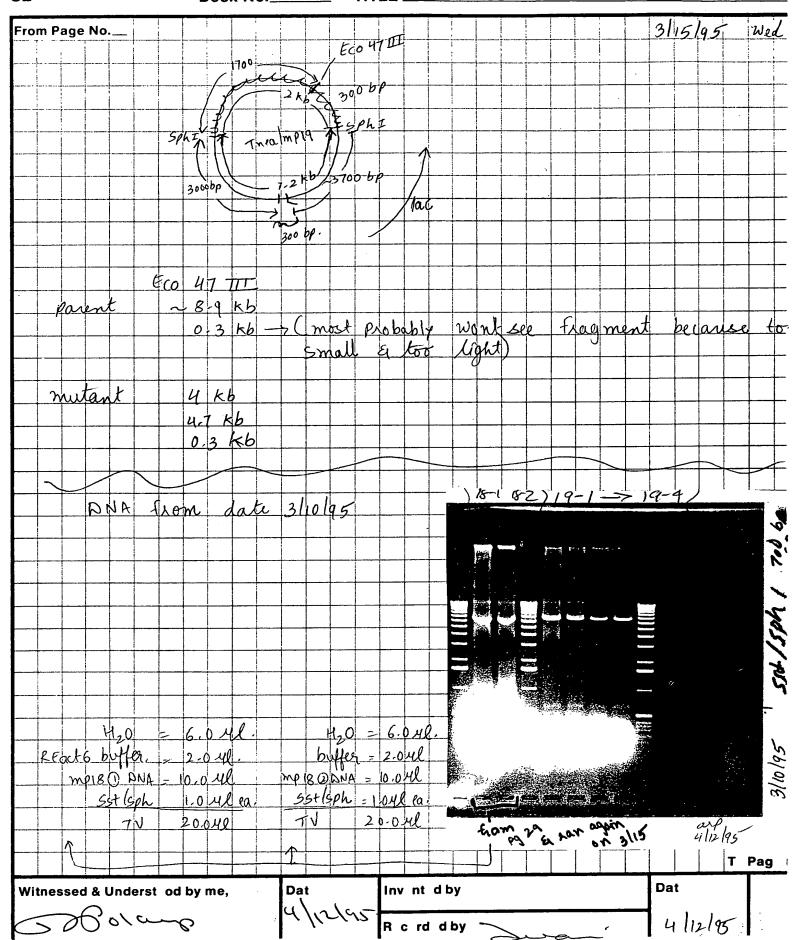
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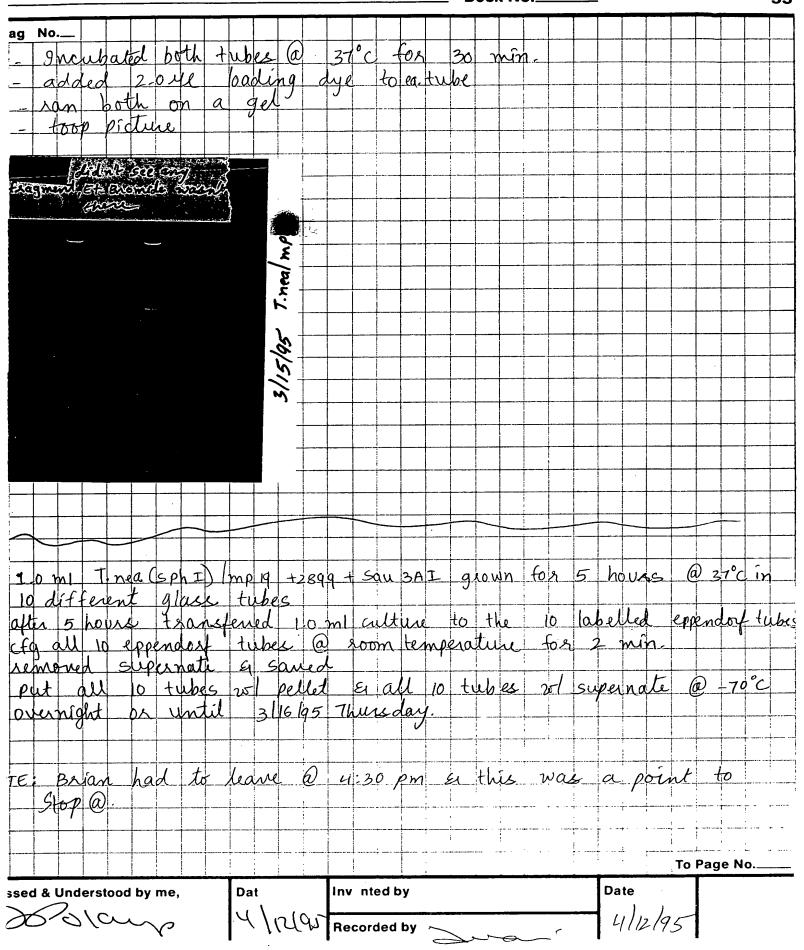
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- added 100 Ml 51 - added 200 Ml 52	. put	all 10	tube	2 0	n /c	e	m	xed	<u>, </u>	
- added 150 yl 7- incubated on ice	fox 5 2	win.								
- cfg all 10 tubes for transferred 400 ul	r 5 min. of Supern	ate to	the	rew	10	lal	oell	ed	tu	bee
- added 800 ye E. incubated all 10 to	ubes fo	2 30	mini	@ -	70°	<u> </u>				
- (fg & discour fo discarded supernat added 50 41 TE	i E r	ashed	pelle	2 2	oth	70	%	Etc	H.	
	tubes	70.0 yl		pen						
buffer - 2.0 4l Eco 47 TII - 1-0 4l	X 10 =									
TV		100-0 42								
added 10.04l fre	om TV	to all	tube	21 9	tu	oes_				
- inculated @ 37°c added 2 4l lo	for 30 ading d	mín.								
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